JAR file

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1. Objective:

To have an executable jar file of the Java backend the C# handler in java as the main class. So that this jar file can be run from C#.

To see how the C# handler works read this document:

http://www-unix.mcs.anl.gov/~fatima/GridSharp/Docs/Gridsharp-fatima.ppt

2. Description:

A JAR file is like a zipped archive file that contains a bunch of Java files with a .jar filename extension.

Using the Java Development Kit tool called "jar" .jar files can be created from the command line.

To see how we can perform JAR file operations go here:

http://java.sun.com/docs/books/tutorial/jar/basics/index.html

The "jar" tool also allows creation of executable jar files by specifying the main class in the command.

To see details on creating executable jar files go here:

http://csdl.ics.hawaii.edu/~johnson/613f99/modules/04/jar-files.html

Running an executable JAR File from C#

```
StreamWriter writer = File.CreateText(@"C:\Temp\csharp\testing.bat");
writer.WriteLine(@"cd \" );
writer.WriteLine(@"java -jar sample.jar");
writer.Close();
proc=new Process();
proc.EnableRaisingEvents=false;
proc.StartInfo.FileName=@"C:\temp\csharp\testing.bat";
proc.Start();
```

Sample Code: 1

3. Creating a JAR file of a package that is dependent on other packages:

N/A

4. JAR file of the C# handler:

N/A

5. Requisites:

- Need to download JDK and set it in your system environment variables.

http://java.sun.com/j2se/1.4.2/download.html

- For running a jar file from C# by following the **Sample Code: 1**, import `System.Diagnostics` and `System.IO` in your C# class.

6. References:

<http://java.sun.com/docs/books/tutorial/jar/basics/index.html>

<http://csdl.ics.hawaii.edu/~johnson/613f99/modules/04/jar-files.html>

<http://www.devcity.net/forums/topic.asp?tid=56308>